

HEMMING APPARATUS AND METHOD USING A HORIZONTAL
MOTION FOR ACTUATING THE DIE SETS

ABSTRACT

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An apparatus for horizontally actuating hemming and stamping die sets includes a horizontal base support and a roller device horizontally mounted thereon. A linear guidance system is set in and a
10 drive support is vertically attached to the base support. A drive mechanism is supported and an anvil die set is held by the drive support. A vertical platen rests on top of the base support and is loosely guided by the linear guidance system. A
15 punch die set is held by the vertical platen and a plurality of bushings are set therein. At least three guide shafts are secured to the anvil die set and each is engaged to one of the bushings of the punch die set. A plurality of link bars are attached
20 to the vertical platen via link bar attachments and coupled to the drive mechanism. Actuation of the drive mechanism horizontally moves the vertical platen.